

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch

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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 1.28**WELDING INSPECTION REPORT****Resident Engineer:** Casey, William**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-027632**Date Inspected:** 21-May-2012**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1730**Contractor:** American Bridge/Fluor Enterprises, a JV**Location:** jobsite**CWI Name:** William Sherwood**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** OBG**Summary of Items Observed:**

At the start of the shift this Quality Assurance Inspector (QA) traveled to the SAS project site and observed the work and the inspection performed by American Bridge/Fluor Enterprises (AB/F) welding and Quality Control (QC) personnel. The observations and inspections were performed as noted below:

OBG:

This QA observed the excavation and welding of the following repairs on the welds of Stiffener 6W-PP46.5-W2 repair locations are as follows: Y 60 D 15 W 25 L 65; y 80 D 18 W 45 L 120; Y 200 D 17 W 47 L 85 (all measurements from B side). The welding was performed by the welder Todd Jackson (4639) utilizing the Shield Metal Arc Welding (SMAW) process, 9018 filler, at 127 amps with a preheat of 75C. QC William Sherwood was observed performing the in process weld inspection and QC verification using repair WPS ABF-WPS-1002R Rev 0. This QA observed and verified the welding and QC inspection at random intervals.

QA observed Magnetic Particle Testing (MT) performed by William Sherwood after the above mentioned repairs had been excavated and ground to a bright clean metal condition. Mr. Sherwood used Parker brand yoke #19881 with a calibration date of 3/22/12. Red powder was used to provide contrast to the base material and weld.

QA monitored the progress of the copper backing bar removal on OBG W13 West Drop-In Deck Splices. The Contractor is in the process of removing the backing bar, grinding the surrounding base metal and back gouging/grinding the root of the weld to sound metal. All operations are in progress, when complete QC will perform Magnetic Particle Testing, at a frequency of 100%, to the root of the weld. QA will then perform a

WELDING INSPECTION REPORT

(Continued Page 2 of 2)

verification Magnetic Particle Test at a frequency of 10%.

Summary of Conversations:

There were general conversations with Quality Control Inspector William Sherwood, at the start of the shift regarding the location of welding, inspection personnel scheduled for this shift.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Nina Choy 510 385 5910, who represents the Office of Structural Materials for your project.

Inspected By:	Daggett,Matt	Quality Assurance Inspector
Reviewed By:	Levell,Bill	QA Reviewer
